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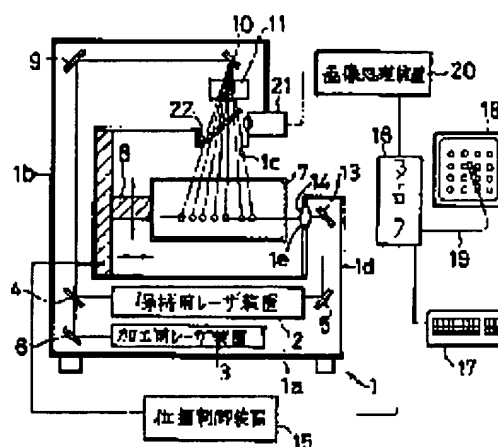
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(54) OPTICAL TWEEZERS DEVICE

(57)Abstract:

PURPOSE: To treat a large number of constrained flux particles by single operation at the same time by moving a container and the convergence position of laser light relatively by a constrained particle moving operation means.

CONSTITUTION: The laser light emitted by a laser device 2 for holding is split into plural beams by the optical fiber grating of a laser light splitting mechanism and the laser beams for particle constraint are guided into the container 7 to constrain particles which are suspended in the liquid in the container at different positions. The container 7 and the convergence position of the laser light are moved relatively with the operation arm 8 to treat a large number of constrained particles by the single operation at the same time. In this case, a nearly linear projection part 1d forming the optical path of the laser light is provided at the other side part of an optical tweezers device main body 1. In this projection part 1d, a 6th reflecting mirror 13 is arranged right above a 2nd reflecting mirror 5 and at a side position of the container 7 and the laser light is reflected by this reflecting mirror 13 laterally almost at 90°.



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